

PORT OF MANCHESTER.

ANNUAL REPORT

OF THE

Medical Officer of Health

TO THE

PORT SANITARY AUTHORITY,

1918.

*ORDERED BY THE PORT SANITARY AUTHORITY TO BE PRINTED
MARCH 31st, 1919.*

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Port of Manchester.

TO THE CHAIRMAN AND MEMBERS OF
THE MANCHESTER PORT SANITARY AUTHORITY.

GENTLEMEN,

It is my pleasure and privilege to present to you the Annual Report of the work accomplished under your jurisdiction during the year 1918.

I have the honour to be,

Yours faithfully,


W. F. DEARDEN,

MEDICAL OFFICER OF HEALTH.

Medical Officer's Department,

168, Trafford Road, Salford.

31st March, 1919.



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Manchester Port Sanitary Authority.

The membership for the year was as follows :—

Mr. Alderman W. HUDDART, J.P., Salford,	<i>Chairman.</i>
Mr. Councillor Thos. Robinson, M.P., J.P., Stretford U.D.	<i>Deputy-</i>
Mr. Councillor W. Bird Midgley ..	<i>[Chairman.]</i>
Mr. Councillor W. T. Dagnall ..	} Manchester.
Mr. Alderman C. Hornby ..	
Mr. Alderman S. Dixon ..	
Alderman Sir D. McCabe, Kt., J.P.	
Alderman Sir Wm. Stephens, Kt., J.P.	} Salford.
Mr. Alderman E. Desquesnes ..	
Mr. Councillor W. H. Barrett, J.P. ..	
Unrepresented	} Borough of Eccles. R.D. of Barton-upon-Irwell. U.D. of Irlam.
Mr. Alderman Jas. Evans, J.P. ..	
	} Borough of Warrington. R.D. of Warrington. U.D. of Lymm. U.D. of Runcorn.
Mr. Councillor Geo. Pilling, J.P. ..	
	} R.D. of Runcorn. R.D. of Bucklow. Borough of Widnes.
Mr. Alderman G. I. Neil, J.P. ..	
	} R.D. of Chester. R.D. of Wirrall.

The officials of the Authority are as follows :—

Medical Officer of Health—W. F. DEARDEN, M.R.C.S., L.R.C.P., D.P.H.,
Telephones : Office, 1114 Trafford Park ;
Residence, 416 Trafford Park.

Clerk—A. HOLMES, Solicitor, Bexley Square, Salford. Tel. 5927 Central.

Sanitary Inspectors—H. ATKINSON, C.S.M.F.I., ; W. RICHMOND, C.S.I.

Food Inspectors—J. ALMOND, C.S.M.F.I. ; GEO. WHALLEY, C.S.M.F.I.

Medical Officer's Clerk—WM. HODSON.

„ „ *Junior Clerk*—GEO. HADLEY.

Offices :—168, Trafford Road, Salford.

20, Norman Road, Runcorn.

SICKNESS DURING THE YEAR 1918.

The total number of cases of Sickness reported during the year was 334.

Reported Sickness from 1898-1918 inclusive.

1898	..	..	..	..	65
1899	..	..	..	..	46
1900	..	..	..	..	71
1901	..	..	..	..	89
1902	..	..	..	..	144
1903	..	..	..	..	124
1904	..	..	..	..	159
1905	..	..	..	..	109
1906	..	..	..	..	174
1907	..	..	..	..	162
1908	..	..	..	..	138
1909	..	..	..	..	132
1910	..	..	..	..	122
1911	..	..	..	..	143
1912	..	..	..	..	188
1913	..	..	..	..	109
1914	..	..	..	..	103
1915	..	..	..	..	155
1916	..	..	..	..	151
1917	..	..	..	..	109
1918	..	..	..	..	334

Cases of Sickness of all kinds have been notified, as usual, by the Liverpool Port Sanitary Authority, the Manchester Ship Canal Co., H.M. Customs, Shipowners and Medical Practitioners, but the bulk of information has been obtained by the Inspectors during their visits to the vessels in port.

Infectious cases are dealt with separately in Table IV.

INFECTIOUS DISEASES.

The diseases notifiable to the Authority under this heading are Smallpox, Diphtheria, Membranous Croup, Erysipelas, Scarlatina, Acute Poliomyelitis, Typhus, Enteric or Typhoid, Relapsing, Continued, Cerebro-Spinal, Puerperal Fevers, and Tuberculosis.

ENTERIC FEVER.

Ten cases occurred on Manchester bound vessels. Five cases were removed to hospital at Manchester, and in each case the quarters occupied by the patient were thoroughly disinfected and cleansed.

PHTHISIS.

Four cases were reported. None of the patients were removed to hospital at Manchester.

MALARIA.

Several cases occurred on Manchester bound vessels during the year. One was admitted to hospital at Philadelphia, and another at Sierra Leone, whilst a third left a vessel at Manchester. Other cases had occurred on four Manchester bound vessels, but were all well on arrival in port.

DYSENTERY.

One case was reported. The patient was removed to hospital at Bizerta.

MEASLES.

One case occurred. The patient, a child on the canal boat "Rembrandt," was treated on board the boat.

CHICKENPOX.

Five cases of Chickenpox were reported, one was removed to hospital at Calcutta, and the others were isolated on the ship.

ERYSIPELAS.

A sailor of the s.s. "Manchester Shipper" was removed to hospital at Liverpool, suffering from Erysipelas.

INFLUENZA.

One hundred and sixty-one cases were reported during the year of which ninety cases entered the port. Sixty-eight were removed to hospital at Manchester, and in each case the quarters occupied by the patients were disinfected.

CHOLERA, PLAGUE AND YELLOW FEVER.

There has been no outbreak during the year under this heading, either in the Port or on Manchester bound vessels.

Your Medical Officer is again indebted to the Zeba Co., 66, Seel Street, Liverpool, for sending in a return of rats caught on various vessels lying in Manchester Docks during the year. The gross number of rats is below the average, but a smaller number of vessels were cleared of the vermin. During the thirteen years respecting which one has taken note of the work of this Company, their agents have captured and destroyed on vessels in Manchester docks the grand total of 98,433 rats.

NO. OF RATS DESTROYED ON VESSELS IN THE PORT OF MANCHESTER DURING THE YEAR 1918.

Month.	No. of Vessels.	No. of Rats destroyed.
January ..	6	318
February ..	6	204
March ..	3	98
April ..	6	330
May ..	7	311
June ..	4	167
July ..	1	47
August ..	4	189
September ..	7	404
October ..	7	351
November ..	4	201
December ..	8	278
TOTALS ..	63	2898

The classification of the rats caught on board ship is as follows :—

Grey rats (<i>Mus alexandrinus</i>)	2257
Brown rats (<i>Mus decumanus</i>)	475
Black rats (<i>Mus rattus</i>)	166
	<u>2898</u>

The number of rats caught on dock premises during the year was 6,533, but no classification of these is obtainable.

The following Table shews the Ports having communication with Manchester that have been considered as infected during the year with either Plague, Cholera or Yellow Fever, also the total number of vessels from each Port of Departure classed as infected under the particular heading.

Name of Country and Port.	Number of Vessels from Ports of Departure Infected with		
	Plague.	Cholera.	Yellow Fever.
EGYPT :			
Alexandria	25	25	..
INDIA :			
Bombay	10	10	..
Karachi	3	3	..
Calcutta	7	7	..
Madras	3	3	..
Rangoon	2	2	..
CEYLON :			
Colombo	1	1	..
BRAZIL :			
Rio de Janiero ..	9	9	..
ARGENTINE :			
Bahia Blanca	1	1	..
TOTALS ..	61	61	..

TABLE I.

The following Table gives the number of cases of sickness which were removed to various hospitals, other than those within the Port of Manchester, from Manchester bound ships :—

Removed to Hospital at Baltimore	..	..	..	1
„ „ „ Bizerta	..	..	..	1
„ „ „ Douglas	..	..	..	1
„ „ „ Dublin	..	..	..	1
„ „ „ Durban	..	..	..	1
„ „ „ Garston	..	..	..	1
„ „ „ Genoa	..	..	..	3
„ „ „ Gibraltar	..	..	..	3
„ „ „ Glasgow	..	..	..	1
„ „ „ Grosse Isle	..	..	..	6
„ „ „ Liverpool	..	..	..	22
„ „ „ Narvik	..	..	..	1
„ „ „ Norfolk, Va.	..	..	..	1
„ „ „ Philadelphia	..	..	..	2
„ „ „ Queenstown	..	..	..	1
„ „ „ Sierra Leone	..	..	..	2
„ „ „ Swansea	..	..	..	1
„ „ „ Sydney, C.B...	..	..	..	4
TOTAL				53

TABLE II.

The number of cases removed to Hospital within the Port of Manchester, was as follows :—

Removed to Hospital at Manchester and Salford	..	89
---	----	----

TABLE III.

In this Table are included those who died at sea from Sickness, together with those who lost their lives through drowning, etc. :—

Deaths at sea from Disease	..	..	..	..	I
Deaths from Drowning.. ..	..	..	..	..	I
					—
			TOTAL	..	2
					—

TABLE IV.—PARTICULARS OF CASES OF INFECTIOUS DISEASE ON
MANCHESTER-BOUND VESSELS.

Date.	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
1918 Jan. 10	s.s. "Elysia"	Bombay	Salford	Enteric fever	The carpenter was affected during the home-ward passage.
Feb. 25	s.s. "Umba"	Norway	Salford	Phthisis	A fireman was removed to hospital at Narvik.
Mich. 5	s.s. "Hambleton Range"	Baltimore	Salford	Malaria	A sailor was removed to hospital at Philadelphia.
Mich. 15	s.s. "City of Marseilles"	New York	Salford	Chicken-pox	Four Lascars affected during the homeward passage.
				Enteric fever	A sailor was removed to Ladywell Sanatorium, on March 25th. The suffering from this fever. The necessary disinfection was carried out. He was discharged from hospital on April 3rd.
June 26	s.s. "Mercian"	Boston	Salford	Enteric fever	A sailor was removed to hospital at Glasgow.

TABLE IV. (*continued*).—PARTICULARS OF CASES OF INFECTIOUS DISEASE ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
July 1	s.s. "Malatian"	..	Salford	Malaria Dysentery	Several of the crew suffered from <i>malaria</i> during the voyage. A trimmer was removed to hospital at Bizerta, suffering from <i>dysentery</i> .
July 9	s.s. "Manchester Shipper"	Philadelphia	Salford	Erysipelas	A sailor was removed to hospital at Liverpool.
Aug. 16	s.s. "Clan Macphee"	Calcutta	Salford	Chicken-pox	An apprentice was removed to hospital at Calcutta.
Aug. 20	s.s. "Isbjorn"	Dieppe	Salford	Enteric fever	The chief engineer was removed to Ladywell Sanatorium and was discharged from hospital on September 30th.
Aug. 27	s.s. "Meltonian"	Mobile	Salford	Phthisis	A horseman <i>died</i> on August 6th and was buried at sea.
Sept. 19	s.s. "Manchester Shipper"	Montreal	Salford	Enteric fever	The chief engineer was removed to hospital at Liverpool. Two cases were removed whilst the vessel was in Manchester, the first on the ship's arrival, and the second on September 30th. In each case the men's quarters were disinfected. Both made good recoveries.

TABLE IV. (*continued*).—PARTICULARS OF CASES OF INFECTIOUS DISEASE ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Sept. 24	s.s. "Gardenia"	West Africa	Salford	Phthisis	A sailor.
Oct. 23	s.s. "Clan Sinclair"	Puerto (Mexico)	Salford	Malaria	Several of the crew affected during the voyage.
				Phthisis	A Lascar died on October 4th and was buried at sea the same day.
Oct. 23	s.s. "British Star"	Texas	Salford	Enteric fever	The second-steward was removed to hospital at Norfolk, Va.
Oct. 25	s.s. "Sorrento"	Dakar	Salford	Malaria	The master left the vessel on its arrival in port suffering from an attack. The majority of the crew had also suffered from the same complaint during the voyage.
Nov. 13	s.s. "Clan Alpine"	Bombay	Salford	Malaria	The firemen's cook affected during the voyage.

TABLE IV. (*continued*).—PARTICULARS OF CASES OF INFECTIOUS DISEASE ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Dec. 4	s.s. "Chicago City"	Alexandria	Salford	Enteric fever	A sailor was removed to hospital at Gibraltar.
Dec. 6	Canal boat "Rembrandt"	..	Ellesmere Port	Measles	One of the children of the master.
Dec. 6	s.s. "Manchester Brigade"	Montreal	Salford	Enteric fever	An apprentice was removed to Ladywell Sanatorium and was discharged from hospital on December 21st.
Dec. 11	s.s. "Clan Chisholm"	West Africa	Salford	Malaria	The chief engineer was removed to hospital at Sierra Leone, on November 9th. Several of the crew had also suffered during the voyage.

FOOD INSPECTION.

Four Magistrates' Orders for destruction were granted during the year, this being necessary owing to difficulty in obtaining a responsible person to surrender certain articles.

IMPORTATION OF LIVE STOCK.

The following table shews the total number of live stock imported during the year :—

	Cattle.	Sheep and Lambs.	Pigs.	Goats.
Coastwise (Irish)	8,968	13,967	385	38
Foreign	—	—	—	—

FOREIGN MEAT REGULATIONS.

Two casks of ox-tongues, imported on February 7th, on the s.s. "Manchester Merchant," from St. John, were, in default of re-exportation under the provisions of the above Regulations, destroyed. The tongues were so mutilated as to give the impression that nodules of Actinomycosis had been excised.

RESULTS OF INSPECTION.

The following tables show the amounts of Food Imports which have been condemned during the year ; Table A giving particulars of seizures at the Foreign Animals Wharf, and Table B giving particulars of seizures on the various Dock Quays. It will also be noticed from Table C that a quantity of tinned goods, etc., have been voluntarily surrendered for destruction. There were no articles seized in the Runcorn Section.

Articles.	(A.)	Weight. T. c. q. lbs.
Beef (9 carcasses and parts) .. ..	.. ..	2 9 2 2
Mutton (part carcase) .. ..	.. ..	0 0 2 4
Beef Offal (11 full sets, etc.) .. ..	.. ..	0 14 1 17
Mutton Offal (2 full sets) .. ..	.. ..	0 0 1 16
Pork (1 carcase) .. ..	.. ..	0 2 0 16
		<hr/>
	TOTAL ..	3 6 3 27

(B.)

Articles.	Weight.			
	T.	c.	q.	lbs.
Grain, Cereals, &c.—				
Wheat	137	13	0	12
Cornflour and Corn Meal	22	14	2	9
Rolled Oats	16	10	1	16
Oats	16	4	2	7
Maize	14	18	0	18
Barley	12	11	3	2
Farinha	12	7	0	0
Corn Meal Grits	7	5	2	9
Flour	2	10	0	0
Oatmeal	3	3	2	21
Peas	0	10	0	8
Quaker Oats	0	9	2	24
Lentils	0	6	2	0
Groats	0	1	0	0
Fruit and Vegetables—				
Oranges (158 cases and 95 boxes) ..	20	4	0	0
Lemons (375 boxes)	15	15	2	0
Onions (60 cases and 15 bags) ..	3	17	0	0
Tinned Foods—				
Tomato Puree (1,303 tins)	13	3	0	24
Condensed Milk (13,846 tins) ..	6	3	2	14
Tomatoes (1,822 tins)	5	1	3	2
Beef (604 tins)	1	11	2	25
Fish (417 tins)	0	3	2	25
Ox Tongues (7 tins)	0	0	2	2
Pears (19 tins)	0	0	1	10
Apricots (10 tins)	0	0	0	20
Apricot Pulp (2 tins)	0	0	0	20
Peaches (5 tins)	0	0	0	12½
Ox Tail (2 tins)	0	0	0	2
Minced Collops (1 tin)	0	0	0	1½

(B) *continued*.

Articles.					Weight.			
					T.	c.	q.	lbs.
Miscellaneous—								
Coconut Oil	..	..	..	..	12	7	0	0
Sugar	..	..	..	..	10	5	1	18
Bacon and Hams	..	..	..	..	4	14	3	12
Beef	..	..	..	..	9	0	1	18
Mutton	..	..	..	..	0	13	0	23
Honey	..	..	..	..	0	5	0	0
Currants (3 bags)	..	..	..	..	0	1	2	0
Spaghetti (5 boxes)	..	..	..	..	0	1	1	0
Eggs (830)	..	..	..	..	0	0	3	14
Cheese	..	..	..	..	0	0	2	4
Almonds	..	..	..	..	0	0	0	19
TOTAL					352	18	1	0
					3	6	2	27
GROSS TOTAL					356	4	3	27

Voluntarily Surrendered.

Articles.					Weight.			
					T.	c.	q.	lbs.
Potatoes (25 bags)	..	..	..	..	1	5	0	0
Beef	..	..	..	..	0	1	1	0
Bacon and Hams	..	..	..	..	0	0	3	23
Tinned Beef (478 tins)	..	..	..	..	1	6	2	20
„ Tomatoes (300 tins)	..	..	..	..	0	8	0	4
„ Tongues (86 tins)	..	..	..	..	0	1	2	21
„ Apricots (41 tins)	..	..	..	..	0	0	1	2
„ Fruit (8 tins)	..	..	..	..	0	0	0	20
„ Salmon (9 tins)	..	..	..	..	0	0	0	9
„ Peas (2 tins)	..	..	..	..	0	0	0	5
TOTAL					3	4	0	20

FRESH MEAT.

Emergency slaughters, owing to accident, or ordered by the Inspector of the Board of Agriculture, involved 21 beasts, 16 sheep, and 1 pig. The condemnations from these are shewn in Table A.

GRAIN AND CEREALS.

The gross condemnations under this head were not so large as during the previous year.

TINNED FOODS.

There was a decrease on the average condemnations under this heading, this being chiefly due to the established policy of communicating with the consignor, and pointing out how future seizures could be avoided. This way of dealing with such goods has been found very successful in obtaining the desired improvement.

Samples forwarded for examination to the Manchester Public Health Laboratory during the year were :—

Article.	Object of Examination.	Result.
Lymphatic glands of frozen pork.	Evidence of tuberculosis.	Confirmed: tubercle bacilli found.
Tinned Meat	Evidence of decomposition.	No trace.
„ „ ..	Evidence of decomposition and lead contamination.	No trace of decomposition, but lead contamination found.
Tinned Salmon ..	Evidence of metallic contamination.	Evidence of tin contamination found.
Condensed Milk ..	Evidence of decomposition.	Confirmed.

TABLE I.—SHEWING PRINCIPAL FOOD IMPORTS AT
CHIEF HOME PORTS.

PORT.	IMPORT.	AMOUNT. 1913	AMOUNT 1914	AMOUNT. 1915	AMOUNT. 1916	AMOUNT. 1917
London ..		£	£	£	£	£
	Meat	18,864,667	23,485,688	37,009,479	37,185,048	36,044,889
	Grain	17,849,573	19,587,199	30,579,442	35,228,955	47,446,306
	Tea	13,486,345	13,913,144	19,245,425	17,664,248	11,404,173
	Sugar	8,025,015	12,489,422	13,039,023	16,843,009	17,706,449
	Butter	7,868,963	7,603,189	10,460,687	5,962,623	9,030,379
	Fruit	6,365,035	5,494,738	7,195,243	8,870,843	3,655,387
	Cheese	3,732,008	4,805,958	6,901,940	8,119,554	10,165,172
Liverpool .	Eggs	2,847,883	2,503,399	1,965,551	1,151,257	985,499
	Meat	19,079,197	20,836,839	31,293,277	37,628,265	40,748,085
	Grain	16,996,644	16,060,441	21,936,436	31,125,254	45,444,439
	Sugar	3,992,207	7,015,675	8,977,871	9,996,768	12,331,732
	Fruit	5,521,733	4,937,843	5,195,727	4,750,975	3,500,668
	Lard	1,975,999	1,700,209	1,554,380	4,959,137	4,695,634
	Cheese	995,607	985,530	1,635,688	2,116,819	4,803,175
Hull ..	Grain	10,829,716	9,381,978	12,016,892	11,790,589	11,444,042
	Butter	3,647,017	3,312,328	2,764,361	2,440,364	2,690,018
	Meat	2,102,204	2,476,320	4,522,812	4,676,283	5,538,322
	Eggs	1,996,485	1,481,155	1,080,178	847,965	1,394,854
	Margarine	1,141,040	1,083,290	1,968,576	2,739,356	1,626,822
	Sugar	1,049,030	1,173,286	746,180	965,185	72,470
	Lard	839,065	561,510	749,025	713,686	1,333,706
	Fruit	631,926	482,284	536,438	351,424	176,749
	Fish	636,192	474,991	611,741	442,872	1,097,150
	Vegetables	657,899	411,601	513,175	462,587	522,652

TABLE I. (*continued*)—SHEWING PRINCIPAL FOOD IMPORTS AT
CHIEF HOME PORTS.

PORT.	IMPORT.	AMOUNT. 1913	AMOUNT. 1914	AMOUNT. 1915	AMOUNT. 1916	AMOUNT. 1917
		£	£	£	£	£
Manchester	Grain	4,577,438	4,707,763	6,781,348	8,417,687	10,271,329
	Sugar	955,601	1,823,605	1,497,456	1,692,194	1,075,532
	Meat	355,460	1,639,781	556,525	1,059,319	2,230,259
	Butter	—	953,882	517	21,977	3,957
	Lard	937,589	849,164	833,730	1,155,280	798,217
	Fruit	324,984	392,097	507,209	583,910	356,047
	Eggs	84,141	334,275	186,228	136,459	2,454
	Cheese	141,724	96,386	221,046	316,058	594,674
Southamp- ton	Meat	2,592,137	1,960,478	1,196,063	2,222,176	2,698,034
	Butter	1,689,660	1,755,508	2,421,815	997,916	911,128
	Cocoa and Coffee	1,479,872	921,999	66,265	234,170	76,610
	Vegetables	869,886	945,191	632,696	731,224	1,269,241
	Fruit	641,250	500,784	270,344	298,584	594,476
	Grain	635,283	288,339	201,174	261,904	855,139
Leith	Butter	2,509,660	2,908,736	2,309,733	1,980,737	345,643
	Grain	3,659,495	2,709,458	3,817,282	4,008,473	2,979,932
	Eggs	1,527,153	1,307,996	760,251	602,768	18,597
	Sugar	1,325,097	1,074,050	798,521	655,023	303,421
Glasgow	Grain	5,166,354	4,296,669	6,250,699	90,950	13,824,507
	Meat	1,702,115	1,547,117	2,101,816	2,818,777	4,216,200
	Fruit	750,747	641,943	848,840	981,770	596,246
Harwich	Meat	6,837,574	5,027,108	390,866	20,760	239,572
	Eggs	1,400,663	891,505	138,311	13,370	96,784
	Butter	1,395,695	987,775	27,958	582	122,890
	Margarine	1,116,645	1,136,620	1,256,836	374,065	1,604,513
	Cocoa	327,177	188,850	264,883	60,915	—

TABLE I. (*continued*)—SHEWING PRINCIPAL FOOD IMPORTS AT
CHIEF HOME PORTS.

PORT.	IMPORT.	AMOUNT. 1913	AMOUNT. 1914	AMOUNT. 1915	AMOUNT. 1916	AMOUNT. 1917
		£	£	£	£	£
Bristol	Grain	6,580,286	7,353,909	8,641,719	8,737,673	11,843,865
	Sugar	1,181,620	1,663,213	1,565,795	1,918,179	951,194
	Fruit	1,122,581	1,114,384	1,135,237	1,158,483	637,212
	Cheese	969,982	954,842	1,087,036	1,227,884	1,281,748
	Meat	631,916	705,118	1,561,561	1,643,961	3,524,944
	Lard	433,556	384,785	486,337	303,050	352,344
Newcastle- on-Tyne	Butter	2,631,361	2,227,775	3,275,829	2,023,752	2,072,010
	Grain	1 614 942	1,170,341	1,506,689	2,013,701	1,710,190
	Meat	1,029,728	909,439	508,963	297,770	1,704,360
	Eggs	500,142	423,510	415,330	247,516	832,206
	Sugar	285,656	241,674	79,022	14,066	31
Grimsby	Butter	3,338,569	2,994,848	4,561,830	4,128,359	2,120,435
	Meat	822,720	1,963,590	5,660,551	5,254,004	2,436,734
	Eggs	405,198	488,300	582,669	415,501	351,453
	Margarine	311,862	197,291	75,942	5,385	—
	Grain	108,424	143,720	134,297	100,674	111,576
Cardiff	Grain	2,357,614	2,684,332	2,956,541	3,765,962	3,896,268
	Vegetables	184,644	134,479	111,915	131,123	192,807
	Meat	174,718	86,240	375,142	5,106	370,835

TABLE II.—SHEWING THE PRINCIPAL PRODUCING COUNTRIES AND THE DIFFERENCES IN THE AMOUNTS OF FOOD IMPORTS PRODUCED FOR THIS COUNTRY IN THE SIX YEARS 1912, 1913, 1914, 1915 1916 and 1917.

COUNTRY.	YEAR 1912.	YEAR 1913.	YEAR 1914.	YEAR 1915.	YEAR 1916.	YEAR 1917.
South and Central America ..	£ 44,792,839	£ 46,411,333	£ 30,990,874	£ 73,288,942	£ 67,968,042	£ 70,111,163
United States of America ..	33,002,029	43,873,324	37,104,748	91,584,431	128,951,191	154,812,611
Australia and New Zealand ..	23,592,786	24,291,261	28,264,451	29,295,016	28,263,499	40,843,044
Denmark	21,515,778	23,225,293	24,712,546	21,803,097	21,211,302	17,350,873
Canada	20,694,450	20,803,133	25,136,082	29,927,365	45,963,887	57,434,313
India	25,308,988	19,973,403	16,234,738	26,603,357	24,823,715	23,159,569
Netherlands	14,565,378	16,665,064	16,958,419	14,452,843	14,474,457	15,106,614
Germany	10,421,938	15,836,687	8,249,664	1,600	7,448	301
Russia	17,464,442	15,172,445	12,858,755	8,706,082	691,288	128,951
France	9,434,472	9,026,625	7,195,398	7,555,593	5,424,090	4,359,770
Spain	5,154,402	5,038,274	5,410,191	6,290,858	7,708,146	5,463,008
Sweden	2,507,251	2,520,589	2,242,576	1,141,818	16,845	—
Belgium	2,655,405	2,064,538	817,404	99,527	54,908	17,652
Roumania	2,589,228	1,062,506	2,666,410	—	—	—

TABLE III.—COMPARING FOOD IMPORTS WITH TOTAL IMPORTS. AT THE CHIEF PORTS, AND SHEWING THE RATE OF INCREASE AND DECREASE.

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
LONDON:—										
Total Imports .	£ 195,329,043	£ 205,639,879	£ 228,260,138	£ 229,988,484	£ 239,344,384	£ 253,879,289	£ 253,172,916	£ 337,565,905	£ 359,382,178	£ 337,703,405
Food Imports..	74,318,707	81,753,813	87,112,349	91,982,211	92,127,557	91,190,956	106,388,309	148,058,627	159,086,970	155,615,189
LIVERPOOL:—										
Total Imports .	140,635,000	148,596,750	170,270,246	159,914,782	179,250,136	175,491,584	166,443,588	230,027,506	280,023,728	372,639,066
Food Imports .	47,093,893	47,389,221	47,808,612	47,728,697	52,017,164	53,339,221	57,980,678	83,148,700	101,381,687	129,213,261
HULL:—										
Total Imports .	35,338,690	39,629,597	42,282,026	41,082,231	48,607,902	49,840,283	41,027,070	50,157,191	54,155,257	57,121,843
Food Imports .	18,192,495	20,544,060	20,946,627	20,968,058	24,584,491	24,286,311	21,380,777	26,178,958	26,041,698	28,344,413
MANCHESTER:—										
Total Imports .	25,647,640	28,943,444	29,944,905	32,502,954	35,111,128	35,290,606	33,741,734	39,656,092	47,967,835	57,731,668
Food Imports .	6,719,134	7,971,958	7,730,289	7,626,060	7,425,765	7,502,964	11,065,871	10,993,977	13,738,286	15,591,837
SOUTHAMPTON:—										
Total Imports .	20,011,756	21,449,767	21,286,105	20,764,972	24,543,991	25,492,809	18,723,500	14,360,522	12,087,465	18,538,064
Food Imports .	8,624,665	9,618,461	8,252,323	7,446,748	8,552,420	9,105,704	7,101,198	5,554,634	5,269,714	7,056,881
BRISTOL:—										
Total Imports .	13,644,676	14,392,176	14,991,615	15,557,506	17,511,486	18,019,452	17,516,336	23,454,315	24,590,007	31,987,856
Food Imports .	8,418,226	9,432,740	9,288,803	9,715,609	11,413,773	11,647,888	12,946,310	14,841,624	16,002,736	19,434,537

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
HARWICH :—										
Total Imports .	19,444,348	19,824,200	21,152,857	22,437,602	25,548,997	25,637,268	17,066,312	3,769,541	986,502	2,720,799
Food Imports .	9,843,289	9,822,538	9,091,399	10,047,467	11,881,961	11,251,471	9,107,931	2,599,751	556,275	2,461,538
GLASGOW :—										
Total Imports .	14,250,321	14,267,670	14,533,330	15,631,149	16,941,685	18,485	16,870,214	26,568,225	33,804,247	40,342,990
Food Imports .	7,105,912	7,636,454	7,024,801	7,345,961	7,840,368	8,455,695	9,517,902	12,084,518	17,006,163	22,051,691
FOLKESTONE :—										
Total Imports .	9,785,159	10,008,946	10,068,224	13,022,682	14,582,065	15,469,330	14,582,065	9,793,715	8,314,327	6,971,770
Food Imports .	711,782	819,564	760,218	962,088	1,232,524	1,156,056	1,718,204	692,771	659,740	421,150
LEITH :—										
Total Imports .	12,883,890	13,658,737	13,559,655	15,054,221	16,531,420	15,748,662	13,751,770	15,078,990	16,675,229	13,168,468
Food Imports .	8,556,205	8,993,122	8,535,627	9,287,551	10,257,704	10,944,251	9,132,994	9,279,769	9,500,547	5,730,369
GRIMSBY :—										
Total Imports .	10,913,713	11,489,149	12,615,959	13,544,125	14,786,430	15,849,100	13,259,376	15,493,169	16,907,932	12,161,675
Food Imports .	4,608,242	4,489,871	4,587,264	5,153,730	5,130,616	5,325,294	6,491,581	11,799,435	11,259,672	6,212,030
NEWCASTLE :—										
Total Imports .	9,423,983	9,048,035	9,442,944	9,784,592	10,043,427	11,349,000	9,387,476	11,859,937	11,706,702	12,652,449
Food Imports .	5,573,463	5,502,492	5,424,098	5,746,806	6,050,212	7,013,067	5,744,058	6,929,227	5,592,756	6,792,903
CARDIFF :—										
Total Imports .	5,807,777	5,853,477	6,375,106	6,016,772	6,153,205	6,704,664	6,056,307	8,387,354	9,039,528	11,055,496
Food Imports .	2,854,177	3,074,149	3,326,144	3,218,689	2,827,732	2,878,353	3,099,151	3,652,692	4,029,407	4,746,313

THE SANITARY CONDITION OF SHIPS.

The number of vessels registered under the Merchant Shipping Act inspected during the year, totals 1,672. Of this 555 were found with insanitary conditions of various kinds. When compared with the numbers for 1917, a decrease under both headings is noted. In 1917, the Inspections numbered 1,919, and the defective vessels 633. The percentage of defective vessels is therefore 0.21 higher for 1918. In the Manchester Section there is a decrease of 156 inspections from the previous year, and in the Runcorn Section a decrease of 91. The following Table shews the total number of vessels inspected in the Port, together with the total numbers and percentage of defective vessels each year, from 1898 to 1918 inclusive.

The steady diminution of inspections during the period of the War has been due to the diminished number of ships entering the Port, this applying equally to both foreign and coastwise traffic. A large quantity of foreign traffic was suspended during this period.

Mr. Whalley has assisted in the duties of inspection at each section of the Port as occasion arose.

The total number of vessels inspected within the Port, together with the total number of percentages of defective vessels, from 1898 to 1918 :—

Year.		No. Inspected.		No. Defective.		Percentage.
1898	....	1346	....	263	....	19.5
1899	....	1294	....	251	....	19.4*
1900	....	1610	....	231	....	14.4*
1901	....	1344	....	263	....	19.5
1902	....	2477	....	870	....	35.1
1903	....	2585	....	916	....	38.4
1904	....	2621	....	1241	....	47.35
1905	....	2510	....	1169	....	46.57
1906	....	2284	....	984	....	43.08
1907	....	2592	....	1014	....	39.12
1908	....	2562	....	954	....	37.22
1909	....	2871	....	1062	....	36.99
1910	....	2879	....	1003	....	34.86

Year.		No. Inspected.		No. Defective.		Percentage.
1911	....	2853	....	1033	....	36·20
1912	....	2778	....	871	....	31·35
1913	....	2786	....	904	....	32·44
1914	....	2775	....	810	....	29·19
1915	....	2623	....	749	....	28·61
1916	....	2264	....	729	....	32·20
1917	....	1919	....	633	....	32·98
1918	....	1672	....	555	....	33·19

The number of vessels inspected at various points within the Port during each year are shewn as follows :—

Comparison as to the number of vessels inspected at various points within the Port :—

Year	Manchester and Salford.		Runcorn and Weston Point.		Ellesmere Port.		Widnes.		Other Places	
1898	..	762	..	386	..	111	..	60	..	27
1899	..	667	..	308	..	108	..	43	..	168*
1900	..	619	..	331	..	80	..	63	..	517*
1901	..	861	..	313	..	70	..	66	..	34
1902	..	1194	..	862	..	137	..	174	..	110
1903	..	1087	..	737	..	192	..	206	..	163
1904	..	1186	..	965	..	175	..	155	..	137
1905	..	1157	..	863	..	164	..	135	..	191
1906	..	1105	..	731	..	173	..	99	..	176
1907	..	1223	..	883	..	191	..	125	..	167
1908	..	1286	..	852	..	171	..	82	..	171
1909	..	1338	..	890	..	273	..	174	..	196
1910	..	1359	..	969	..	285	..	156	..	110
1911	..	1390	..	909	..	264	..	97	..	193
1912	..	1369	..	955	..	235	..	94	..	125
1913	..	1414	..	912	..	223	..	111	..	126
1914	..	1304	..	821	..	283	..	156	..	211
1915	..	1345	..	663	..	258	..	106	..	251
1916	..	1163	..	579	..	206	..	141	..	177
1917	..	947	..	498	..	188	..	136	..	150
1918	..	795	..	474	..	127	..	145	..	131

* Extra Inspector at Eastham.

The following Table shews the progress made during the year in obtaining the remedy of defects.

VESSELS RENDERED SANITARY.

	1911	1912	1913	1914	1915	1916	1917	1918
January	51	61	53	29	11	35	10	16
February	51	54	37	24	20	39	28	20
March	63	58	40	32	31	50	28	33
April	41	53	44	46	19	46	29	32
May	49	44	55	43	17	71	26	18
June	44	46	46	35	32	61	34	25
July	54	61	56	29	33	43	33	25
August	59	31	35	34	45	56	13	38
September	67	52	38	33	30	54	32	30
October	59	51	47	29	31	50	35	26
November	54	39	50	19	41	33	33	23
December	62	45	38	29	34	86	39	39
	—	—	—	—	—	—	—	—
Totals	678	637	588	530	387	396	340	325
	—	—	—	—	—	—	—	—

Eighteen Public Health Notices have been served, as against 9 in 1917. It has been ascertained that eight of these have been fully complied with and two partly, and there has been no opportunity of inspecting the other vessels.

MANCHESTER PORT SANITARY AUTHORITY.

TOTALS OF MONTHLY INSPECTIONS FOR 1910-15-16-17-18.

1910. (Record Year)												1915.				1916.				1917.				1918.																											
	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.																					
January ..	90	86	176	50	46	96	62	42	104	62	43	105	48	44	92	62	42	104	62	43	105	48	44	92	62	42	104	62	43	105																					
February ..	97	110	207	108	106	214	90	71	161	88	75	163	59	69	128	88	71	161	88	75	163	59	69	128	88	71	161	88	75	163																					
March ..	111	111	222	144	126	270	93	77	170	78	90	168	55	70	125	78	77	170	78	90	168	55	70	125	78	77	170	78	90	168																					
April ..	98	107	205	108	98	206	84	76	160	87	85	172	80	96	176	87	76	160	87	85	172	80	96	176	87	76	160	87	85	172																					
May ..	133	149	282	147	126	273	144	108	252	75	71	146	63	43	106	75	108	252	75	71	146	63	43	106	75	108	252	75	71	146																					
June ..	121	112	233	119	104	223	115	87	202	90	92	182	68	77	145	90	87	202	90	92	182	68	77	145	90	87	202	90	92	182																					
July ..	114	128	242	123	98	221	132	124	256	104	91	195	84	96	180	104	124	256	104	91	195	84	96	180	104	124	256	104	91	195																					
August ..	135	129	264	121	117	238	94	77	171	76	41	117	69	71	140	76	77	171	76	41	117	69	71	140	76	77	171	76	41	117																					
September ..	107	120	227	118	79	197	94	105	199	83	86	169	86	76	162	83	105	199	83	86	169	86	76	162	83	105	199	83	86	169																					
October ..	139	157	296	122	90	212	126	103	229	78	96	174	55	47	102	78	103	229	78	96	174	55	47	102	78	103	229	78	96	174																					
November ..	104	100	204	130	105	235	83	79	162	74	62	136	62	69	131	74	79	162	74	62	136	62	69	131	74	79	162	74	62	136																					
December ..	176	145	321	144	94	238	116	82	198	100	92	192	110	75	185	100	82	198	100	92	192	110	75	185	100	82	198	100	92	192																					
TOTALS ..	1425	1454	2879	1434	1189	2623	1233	1031	2264	995	924	1919	839	833	1672	995	1031	2264	995	924	1919	839	833	1672	995	1031	2264	995	924	1919																					
INCREASE (+) OR DECREASE (—)				{				{				{				{				{				{																											
from previous year				+ 64				— 216				— 152				— 201				— 238				— 107				— 345				— 156				— 91				— 247											
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1918.—TABLE A.

Shewing the number of vessels inspected and found insanitary arriving from Foreign and Coastwise Ports :—

		Inspected.	Insanitary	No, of Orders issued under P. H. Act.
Foreign—				
Steamships	..	429	198	0
Sailing Vessels	..	105	30	0
		—	—	—
Totals	..	534	228	0
		<u> </u>	<u> </u>	<u> </u>
Coastwise—				
Steamships	..	642	136	5
Sailing Vessels	..	496	191	13
		—	—	—
Totals	..	1138	327	18
		<u> </u>	<u> </u>	<u> </u>
Gross Totals	..	1672	555	18

TABLE B.

Shewing the numbers of British and Foreign vessels inspected and numbers found insanitary :—

			Inspected.	Insanitary.
British Steamships	..	..	1021	324
„ Sailing Vessels	..	..	197	58
„ Flats and Barges	..	..	395	160
Foreign Steamships	..	..	57	12
„ Sailing Vessels	..	..	2	1
			—	—
Totals	..	..	1672	555
			<u> </u>	<u> </u>
Revisits	..	..	424	
Gross Total of Visits and Revisits			2096	

TABLE C.

Shewing the number of vessels inspected and number found insanitary at different points in the Port :—

	Inspected	Insanitary
Acton Grange	1	0
Astmoor Marsh (Wigg's Works) .	83	25
Barton	5	4
Davyhulme	13	1
Eccles (including Irwell Park Wharf)	11	7
Ellesmere Port	127	54
Manchester, Salford and Stretford.	795	254
Partington	15	1
Runcorn	365	126
Warrington	3	1
Weston Point and Weston Mersey		
Lock	109	36
Widnes	145	46
	<hr/>	<hr/>
Totals	<u>1672</u>	<u>555</u>

TABLE D.

Shewing the Nationalities of the vessels inspected and number found insanitary :—

	Inspected	Insanitary
British	1620	544
Norwegian	22	4
Spanish	15	4
French	5	0
Danish	3	1
Russian	3	2
American (U.S.)	2	0
Italian	1	0
Swedish	1	0
	<hr/>	<hr/>
Totals	<u>1672</u>	<u>555</u>

TABLE E.

Shewing the number of crews of various Nationalities on vessels inspected during the year :—

British—

Europeans	..	..	..	..	24,780
Lascars	..	..	..	..	3532
Chinese	..	..	..	..	402
Arabs	..	..	..	..	23
					<hr/>
					28,737
Norwegian	..	..	..	..	434
Spanish	..	..	..	..	404
French	..	..	..	..	150
Indians	..	..	..	..	137
Russian	..	..	..	..	134
American (U.S.)	..	..	..	..	120
Italian	..	..	..	..	31
Danish	..	..	..	..	30
Swedish	..	..	..	..	28
Japanese	..	..	..	..	20
					<hr/>
Total	..	..	..	..	30,225

TABLE F.

Giving particulars of insanitary conditions found in the different vessels inspected :—

	Steam Ships.	Sailing Vessels.	Flats & Barges.
CREW'S QUARTERS.			
Accumulations of dirt and refuse in quarters ...	10	—	—
Accumulation of stagnant water ..	11	—	—
Bilges requiring or inaccessible for cleansing ..	—	—	7
Bulkheads defective allowing communication between W.C.'s, holds, &c., and quarters	7	—	26

	Steam Ships.	Sailing Vessels.	Flats & Barges.
Chain lockers open to forecastles &c.	4	I	I
Chain locker casing broken and defective	I	—	—
Condensed moisture forming on iron decks and beams	2	—	I
Decklights, portlights, &c., broken & defective.	40	9	3I
Drainage of quarters defective, allowing com- munication with w.c.'s, &c.	IO	—	—
Forecastles, &c., requiring cleansing, painting, limewashing, &c.	122	10	49
Forecastles, &c., infested with vermin	2	—	—
Forecastles, &c., deficient in lighting	4	—	16
Flooring, fittings, &c., defective	6	2	9
Iron over bunks unsheathed	3	—	2
Miscellaneous leakages into quarters	46	26	70
Ship's gear, stores, &c., kept openly in, or in communication with quarters.	3	2	I
Ventilation inefficient or ventilators defective..	18	16	5
Uncapped sounding pipe to ballast tank open- ing into forecastle	I	—	—
CONDITION OF DECKS.			
Accumulations of dirt and refuse about decks..	11	—	—
HEATING.			
Stoves and stove pipes defective	4	I	8
No stove provided	2	—	—

	Steam Ships.	Sailing Vessels.	Flats & Barges
OVERCROWDING			
and uncertified accommodation occupied	6	—	6
Certified accommodation not marked in forecastle	3	—	3
STORAGE OF FOOD.			
Lockers without doors	7	—	2
Lockers requiring cleansing, limewashing, painting, repairing, &c.	—	—	4
Food kept open in quarters	2	—	—
STORAGE OF WATER.			
Water tanks, &c., requiring cleansing	29	1	1
„ not accessible for cleansing	—	1	—
Water tanks, casks, &c., in a defective condition.	1	8	30
No water receptacle	—	—	6
WATER CLOSETS.			
Flushing apparatus defective.....	36	—	—
Flush and soil pipes defective	4	—	1
Pans, urinals, &c., in a foul or defective condition	15	1	—
No pan provided	—	1	—
Closets in foul condition	17	1	—
„ requiring limewashing	1	—	—
„ deficient in light or ventilation, or both ..	7	1	—
„ doors and seats absent or requiring repairs	2	—	—
„ insufficient accommodation	3	2	—
Totals.....	440	83	279

REPORT ON THE ADMINISTRATION OF THE CANAL
BOATS ACTS, 1877—84.

For the Year ended 31st December, 1918.

(1) Two Inspectors have been appointed by the Authority to carry out the provisions of the Canal Boats Acts, viz. :—

HENRY ATKINSON, for Section A (Manchester to Latchford) ;

WALTER RICHMOND, for Section B (Latchford to Eastham).

Both Inspectors have the Certificate of the Royal Sanitary Institute.

No Inspector is required to devote his whole time to the duties of inspections under the Canal Boats Acts. Their primary duty is the supervision of shipping registered under the Merchant Shipping Acts, and they are only required to inspect canal boats at such times as they can spare from their other duties.

For the purposes of administration, the Port is divided into two sections, viz. :—from Eastham to Latchford, including Widnes and Warrington, with headquarters at Runcorn, and from Latchford to Manchester, with headquarters at Manchester. Each section is under the control of an Inspector, who is directly and solely responsible to the Medical Officer of Health for the proper supervision of his district.

A motor boat is in daily use on the lower reaches of the canal, and this enables the Inspector to keep under constant supervision canal boats using the Port at various points.

(2) During the year there has been an increase of 133 inspections compared with those of the previous year. On the Runcorn section of the canal 608 inspections were made, showing an increase of 183 from the previous year's number. On the Manchester section 121 inspections were made, against 171 during the previous year, a decrease of 50.

The number of boats inspected, together with those discovered infringing the terms of the Canal Boats Acts, since the Authority undertook this duty, are as follows :—

Year.		Number Inspected.	Number Defective.	Percentage.
1902	..	73	31	42·46
1903	..	191	77	40·30
1904	..	230	105	45·65
1905	..	209	132	63·15
1906	..	115	73	63·46
1907	..	84	55	75·47
1908	..	150	67	44·66
1909	..	257	101	39·29
1910	..	230	87	37·82
1911	..	307	127	41·36
1912	..	254	89	35·03
1913	..	432	159	37·03
1914	..	382	122	31·41
1915	..	311	79	25·40
1916	..	409	112	27·38
1917	..	596	166	27·85
1918	..	729	203	27·84

The proportion of defective boats to the total number inspected during the year amounted to 27·84, being about the same as in 1917.

(3) The following is a summary of the insanitary conditions and contraventions of the Acts found during the year :—

(a) REGISTRATION.

Not registered	2
Registration incorrect	16

(b) NOTIFICATION OF CHANGE OF MASTER

0

(c) CERTIFICATES.

Registration certificate absent	22
„ „ dilapidated	10

(d) MARKING.

No marks	10
Marking indistinct or incorrect	15

(e) OVERCROWDING

10

(f) SEPARATION OF SEXES (want of)

8

(g) CLEANLINESS AND REPAIRS.

Cleansing of cabins required	5
Cabins, etc., dilapidated and repairs required ...	63
Miscellaneous leakages into cabins	87
Bulkheads defective allowing communication with holds	14

(h) VENTILATION AND LIGHTING.

Ventilation inefficient and ventilators defective..	16
Insufficient lighting	22

(i) PAINTING.

Cabins, lockers, berths, etc., requiring painting..	62
---	----

(j) PROVISION OF WATER CASK.

No water vessel or vessel not of sufficient capacity	4
Water casks decayed and water vessels requiring repairs	40

(k) REMOVAL OF BILGE WATER.

Bilge Pumps absent	0
„ „ defective	2
Bilges requiring cleansing	1

(l) NOTIFICATION OF INFECTIOUS DISEASE

0

(m) ADMITTANCE OF INSPECTOR

0

Total 409

The proportion of infringements per boat works out at 2.0.

(4) No prosecutions were undertaken during the year.

(5) The usual steps have been taken to secure compliance with the Acts. In all cases complaint notes have been promptly served upon the owners, and if not attended to at the end of the prescribed number of days, a postcard asking for return of the certificate has been duly forwarded .

(6) No cases of Infectious Disease have occurred on any canal boat during the year.

(7) No boats have been detained for cleansing or disinfection.

(8) and (9) The Authority is not a Registration Authority. 1

RETURN SHOWING THE NUMBER AND TONNAGE OF VESSELS WHICH ARRIVED IN THE PORT OF
MANCHESTER IN 1918.

	Manchester.		Warrington.		Runcorn.		Ellesmere Port.		Totals.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Foreign { Steamers . Sailing ... TOTALS ...	399	924,379	..	..	23	24,697	2	1,538	424	950,614
	..	..	..	..	43	4,250	5	494	48	4,744
	399	924,379	..	..	66	28,947	7	2,032	472	955,358
Coastwise { Steamers . Sailing ... TOTALS ...	766	269,303	4	352	381	38,833	264	34,095	1415	342,583
	1	71	..	..	177	16,523	4	330	182	16,924
	767	269,374	4	352	558	55,356	268	34,425	1597	359,507
GRAND TOTAL .	1166	1,193,753	4	352	624	84,303	275	36,457	2069	1,314,865

The above information has been kindly supplied by H.M. Collector of Customs for the Port.

